

CLAIMS

1. A damage analysis-supporting system for supporting analysis of damage on a motor vehicle, characterized by comprising:

an image-generating apparatus that imports individual drawing data corresponding to components constituting the motor vehicle into layers and generates an image of an analysis target site by superposing the layers;

an area designation-receiving apparatus that receives input designating a damaged area by a user to the image; and

a damage-analyzing apparatus that specifies a damaged portion of each component on a layer-by-layer basis, with each layer having drawing data that belongs to the damaged area designated by the user.

2. A damage analysis-supporting system according to claim 1, characterized in that the damage-analyzing apparatus calculates coordinate points of the damaged area with reference to coordinates of the image, and compares the calculated coordinate points and coordinate points of the drawing data given to the layers with each other to specify each portion, in which the coordinate points agree with each other, as the damaged portion.

3. A damage analysis-supporting system according to claim 1 or 2, characterized in that the damage-analyzing apparatus comprises

a damage degree-calculating apparatus that, based on ratios of a number of pixels of the damaged portion to numbers of pixels of the drawing data, calculates damage degrees of the components corresponding to the drawing data.

4. A damage analysis-supporting system according to claim 3, characterized in that on condition that any of the damage degrees calculated by the damage degree-calculating apparatus exceed a damage degree at which component replacement should be made, the damage-analyzing apparatus specifies a whole of each corresponding component as the damaged portion.

5. A damage analysis-supporting system according to any one of claims 1 to 4, characterized in that:

a plurality of templates are prepared which are used to designate the damaged area; and

in response to an operation in which the user selects one of the templates and attaches the selected template to the image, the area designation-receiving apparatus detects an attachment position of the template as the damaged area.

6. A damage analysis program for causing a computer to support analysis of damage on a motor vehicle, characterized in that the computer caused to realize:

an image-generating function of importing individual drawing data corresponding to components constituting the motor vehicle into layers and generating an image of an analysis target site by superposing the layers;

an area designation-receiving function of receiving input designating a damaged area by a user to the image; and

a damage-analyzing function of specifying a damaged portion of each component on a layer-by-layer basis, with each layer having drawing data that belongs to the damaged area designated by the user.

7. A damage analysis program according to claim 6, characterized in that the damage-analyzing function comprises: a function of calculating coordinate points of the damaged area with reference to coordinates of the image; and a function of comparing the calculated coordinate points and coordinate points of the drawing data given to the layers with each other to specify each portion, in which the coordinate points agree with each other, as the damaged portion.

8. A damage analysis-supporting method for causing a computer to support analysis of damage on a motor vehicle, characterized in that the computer imports individual drawing data corresponding to components constituting the motor vehicle into layers, generates

an image of an analysis target site by superposing the layers, receives input designating a damaged area by a user to the image, and specifies a damaged portion of each component on a layer-by-layer basis, with each layer having drawing data that belongs to the damaged area designated by the user.

9. A damage analysis-supporting method according to claim 8, characterized in that at the time of the specification of the damaged portion, coordinate points of the damaged area are calculated with reference to coordinates of the image, and the calculated coordinate points are compared with coordinate points of the drawing data given to the layers to specify each portion, in which the coordinate points agree with each other, as the damaged portion.